DONGJI
东 吉

User Manual

Model: **DJ-VEND-100**

GUANGDONG DONGJI INTELLIGENT DEVICE CO.,LTD.

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The company reserves the right to modify the product design. The product you purchased may have been improved and may not fully match the instructions, but this will not affect its performance or usability. We apologize for any inconvenience.

Dongji after-sales service hotline: 18807503374

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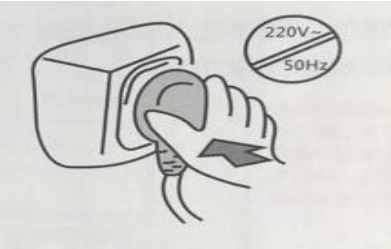
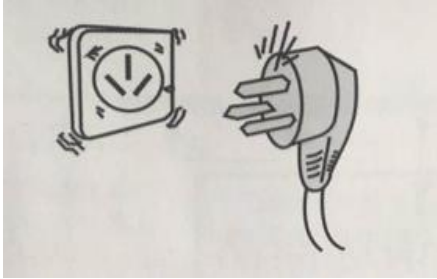
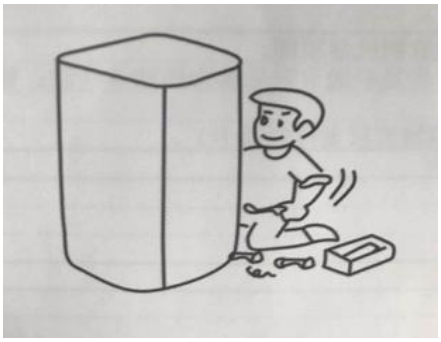
Preface

Thank you for choosing and using our DJ-VEND-100 product. Before using our vending machine, please read the user manual carefully to ensure optimal performance.

Should you have any questions during use, please contact us using the phone number provided at the end of this manual. We are always ready to serve you.

Safety Precautions for Medical Vending Machines		
1. Operate on 220V/50Hz AC power supply with a voltage fluctuation range of 225-235V. Exceeding this range may cause severe malfunctions. 	2. A reliable 10A three-pin socket with proper grounding must be used; otherwise, there is a risk of electric shock. After the machine is installed in place, the plug should be easily detachable.	3. Do not damage the power cord; avoid having the machine press on the power cord or stepping on it. If the power cord is damaged or shows signs of wear, notify the manufacturer for replacement. 
4. When cleaning, repairing, or replacing machine parts, unplug the power cord to prevent electric shock.	5. Unauthorized disassembly or modification of the cabinet, or alteration of its internal electrical control circuitry is strictly prohibited. Any resulting consequences shall be borne by Party B. 	6. Do not place your hand near the cup during pic kup to avoid hand entrapment.

Warning:

- The machine must not be used in flammable or explosive gas environments. Do not spray oil, paint, or other flammable/explosive substances near the machine to avoid accidents.
- Do not splash water or wash inside/outside the machine. When washing the floor, strictly avoid splashing electrical or mechanical components.
- It is strictly prohibited to use other electrical equipment inside the box.
- When the machine is placed near a door or under an eave, attention should be paid to rain protection and sun protection to avoid machine malfunctions and shortened service life.
- The machine should be placed in a location free from moisture and outdoor exposure. Complete exposure to rain and snow is absolutely prohibited.
- It is necessary to clean the dust inside and around the machine every week, especially for electronic components such as the Android board and control board. Dust covering heat sinks, fans, or component surfaces will hinder heat dissipation, leading to temperature rise, which may cause reduced component performance (such as CPU throttling) or permanent damage (such as capacitor bulging and chip

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burning).

- Dust accumulation in slots and connectors (e.g., memory slots, USB ports) may cause poor contact, leading to device failure or frequent disconnections.

Equipment Peripheral Layout Requirements

1. Cabling Requirements

The longer the wiring length, the greater the voltage drop. When the voltage falls below a certain threshold (e.g., under 210V), it may impair equipment operation. To prevent unnecessary user inconvenience, the following wiring requirements must be strictly followed:

Equipment below 1.5kW:
Within 10 meters: Use 1.5mm ²wire
Within 20 meters: Use 2.5mm ²wire
Within 30 meters: Use 4mm ²wire
Equipment below 3kW:
Within 10 meters: Use 2.5mm ²wire
Within 20 meters: Use 4mm ²wire
Within 30 meters: Use 6mm ²wire
Equipment below 4.5kW:
Within 10 meters: Use 4mm ²wire
Within 20 meters: Use 6mm ²wire
Within 40 meters: Use 10mm ²wire

2. Ground Wire

To prevent electric shock and ensure equipment stability, the device must be grounded. This requires installation by an electrician, connecting an effective ground wire. Alternatively, a galvanized iron post over 1.5 meters tall can be driven into the ground to serve as a grounding electrode.

3. Rain Protection

Devices should be installed indoors whenever possible. If outdoor placement is unavoidable, a canopy should be provided.

4. Dehumidification

In humid environments, dust may absorb moisture and form conductive pathways, causing electrical leakage or signal interference.

5. Screen

The device should not be placed directly in front of the sun, as prolonged exposure to sunlight or rain can damage the screen.

Chapter 1 Introduction

1. Cabinet Parameters:

DJ-VEND-100 Vending Machine

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Picture	Main Parameter	
	Dimensions	970mm (length) x 650mm (width) x 1980mm (height);
	Weight	260KG;
	Electrical parameters	AC220V/110V
	Products sold	Medical equipment wire; other materials
	Capacity specifications	6 layers, 5 columns per layer; commonly used springs can hold 5 boxes per column. Total: 150 boxes
	Spring spacing	Custom springs available in sizes (162 × 136 × 36 mm length × width × thickness, 175 × 140 × 40 mm length × width × thickness); only products up to 40 mm thick can be loaded
	Shipment speed	10 seconds
	Cash register system	Membership card payment;
	Cloud payment	/
	Power dissipation	120W;
	Alarm function	Query, fault diagnosis, fault records, and abnormal information push notifications

2. Cabinet Performance Overview

- Made of high-strength steel with electrostatic spray coating, sturdy and durable.
- 10.1-inch touch display screen, featuring a high-definition touchscreen and buttons for simple and intuitive operation.
- Fully automated and user-friendly, with straightforward operation.
- The system backend functions like a rigorous and efficient "inventory manager," always using the equipment's inventory baseline data as a "standard." Whenever an order is generated, it precisely and automatically deducts the inventory for each order. Then, like a responsible "data messenger," it clearly and intuitively presents the real-time updated remaining inventory in the backend management interface, the "display window," allowing relevant personnel to monitor inventory status at any time.
- After each successful sale, the system automatically reduces the stock quantity of the corresponding vending lane by one. The weighing system acts as a secondary verification by detecting the weight of the product to confirm successful delivery, ensuring inventory accuracy.
- The delivery port has good elasticity, enabling tight rebound. The automatic opening and closing mechanism features anti-pinch functionality, which automatically stops or reverses when resistance is encountered during closing.
- Industrial-grade heavy-duty caster wheels bear heavy loads, facilitating easy movement and positioning.
- Waterproof protection should be observed.

Chapter 2 Handing and Installation

1. Precautions for Handling and Moveing

1.1. Unplug the power plug and retract the power cord into the machine;

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1.2. Be careful not to break the touch screen when moving the machine;

1.3. To prevent machine malfunction, the tilt angle during handling should not exceed 45°, and the machine should not be inverted.

2. Unpacking the Machine :

2.1. Use scissors or blades to remove the stretch film, foam, and corner protectors, taking care not to scratch the cabinet;

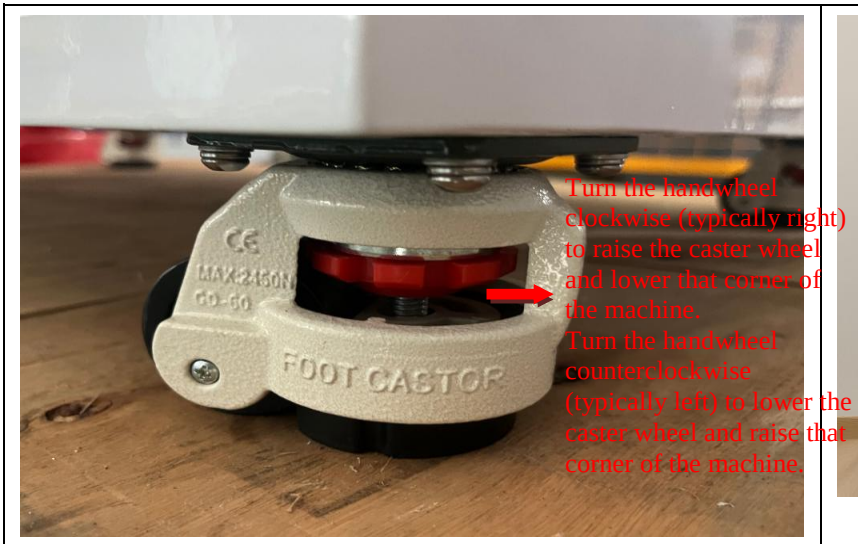
2.2. Check if the cabinet surface is damaged after transportation. If there is damage, contact our after-sales service for resolution;

2.3. Find the corresponding key according to the lock number and open the door panel.

3. Machine Placement:

3.1. The machine must be placed on a flat and solid surface to ensure optimal performance. Improper placement may cause door malfunctions or permanent structural damage. To adjust the angle: -For clockwise rotation (typically rightward), the Fuma wheel rises while the device's angle decreases. -For counterclockwise rotation (typically leftward), the Fuma wheel lowers and the device's angle increases. Adjust diagonally in pairs until the device is nearly level. Recheck repeatedly until complete leveling is achieved. Once the machine stabilizes, gently push it to confirm no wobbling (as shown in Figure 1).

3.2. The machine must be equipped with adequate ventilation space for the radiator to facilitate loading and maintenance. The distance between the machine's back and the wall should exceed 30 cm to ensure proper ventilation and heat dissipation; otherwise, it may lead to performance degradation or even malfunction. The power supply should be a single-phase three-wire system using a 220V AC three-core power socket, with the machine's grounding wire connected to the socket's ground terminal. (If the power supply lacks a ground wire, a grounding post must be used, with a resistance below 1Ω.) The power cable should be a copper-core cable with a diameter of 18AWG or less, and its installation must be performed by a qualified electrician. Unauthorized installation by non-technical personnel is strictly prohibited, as shown in Figure 2.

	
After moving the machine into place - lower the Fuma caster support feet and level the machine - raise and lock the central brake of the Fuma caster - complete installation	**Keep the distance between the back and the wall within 30 cm to ensure proper ventilation and heat dissipation, preventing overload and malfunctions.**
graph 1	**graph 2**

3.3. Sales Tutorial: The label should be affixed prominently on the front of the machine. If necessary, a brief instruction may be attached to ensure smooth consumer use.

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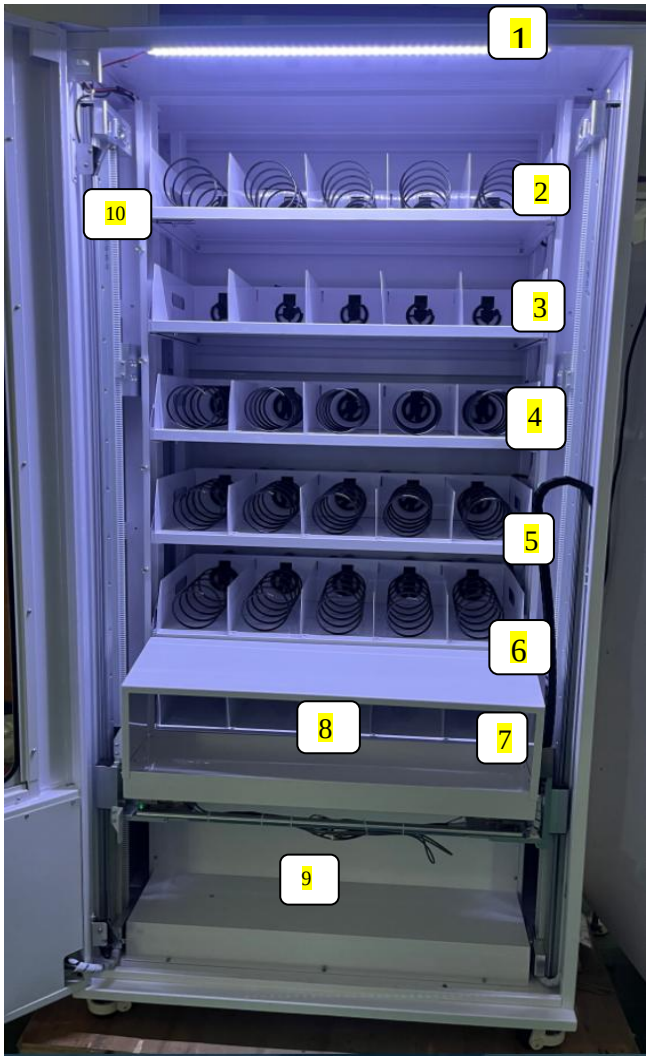
Chapter 3 Pre-sales Preparation

1. Introduction to the Structure of Vending Machines:



Internal Structure Overview of Automatic Vending Machine

1. Lighting: DC24V LED tube;

2. Cargo aisle: The first floor (top floor);

3. Cargo aisle: Second floor;

4. Cargo aisle: The third floor;

5. Cargo aisle: 4th floor;

6. Cargo aisle: 5th floor;

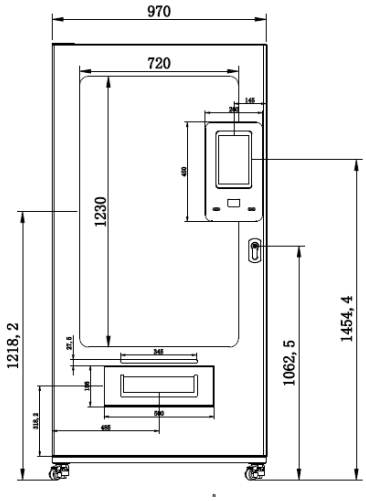
7. Cargo aisle: 6th floor (bottom floor);

8. Elevating delivery port: The platform transports goods to the pickup point and unlocks the platform door.

9. Electrical box module: the machine's circuit control box;

10. Elevating Slide Rail Module: With precision motor control, the platform achieves rapid, smooth, and accurate vertical positioning to ensure precise product capture and delivery to the exit port.

Front dimension diagram



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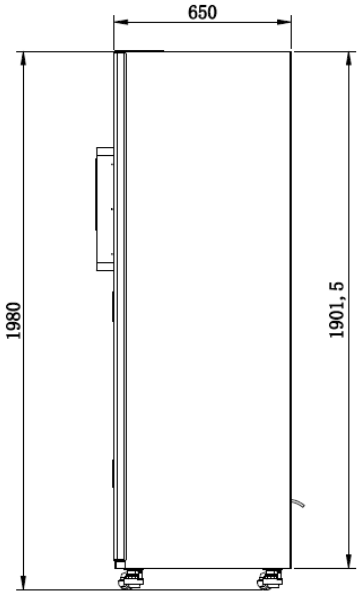
Side dimension drawing



Front Structural Overview of the Vending Machine

1. Tempered Glass Door Observation Window: Used to view the status of items in the medical equipment line;

2. 10.1-inch Touch Display Screen: Remotely update advertisements, promotion information, prices and product introductions on the screen through the background, and play product pictures and advertisement videos in turn;

3. Two-dimensional Code Scanner: Just display the payment code on the screen/scanning area;

4. Main Door Lock: Prevent others from opening the equipment at will;

5. Indicator Light: The indicator light will change color and flash to remind when delivering goods;

6. Delivery Port: When the lifting platform is transported to the delivery port, the door lock is automatically unlocked, and automatically locks after the goods are taken.

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Touch Display Screen Overview

产品规格 »

屏幕参数

LCD 尺寸	10.1寸 TFT LCD
分辨率	800*1280(16:10)
可视角度	85/85/85/85 (L/R/U/D)
亮度	300 cd/m²
对比度	1000:1

触摸参数

触摸类型	10点触控投射电容触摸屏	单点电阻触摸屏	非触摸
透光率	≥88%	≥78%	≥92%
输入模式	手写或电容笔	指尖或手写笔	/
控制通讯	USB	USB	/

物理特性

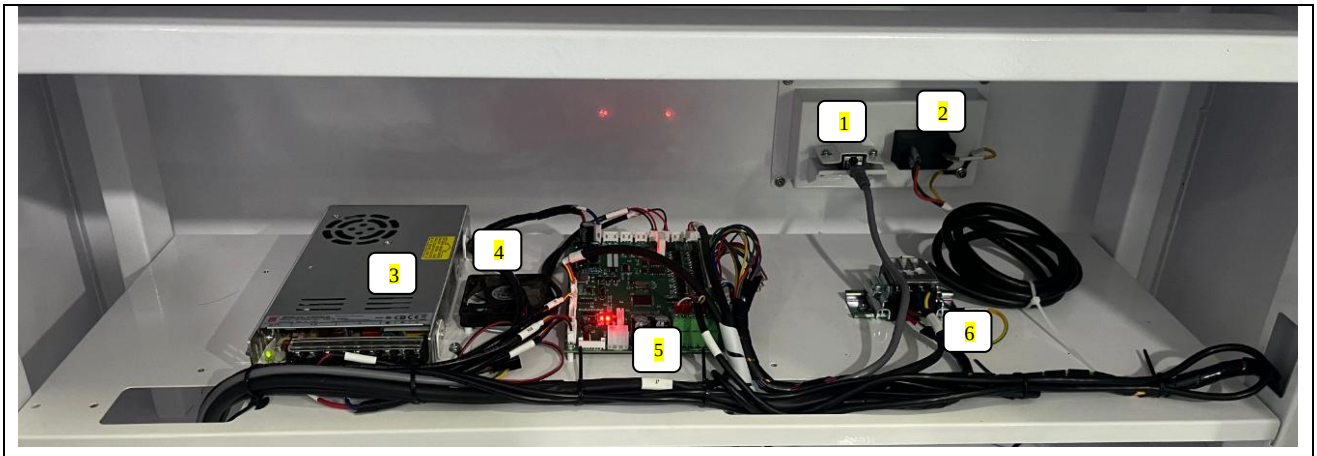
外观尺寸	W263.5x H166x D51.9mm
开孔尺寸	W260.5*H163mm
安装方式	铁片嵌入式安装、背挂嵌入式安装等
机身颜色	黑色，可选银色
机身材质	铝合金

接口参数

凤凰端子	1*12P凤凰端子(供电/RS232*1/RS485*1/CAN*1/GPIO*3)
电源接口	1*DC 螺纹接口(直径5.5*2.1mm)
USB	2*USB3.0
TF卡	1*TF卡标准接口
SIM卡	1*SIM卡标准接口，支持各种制式(取决于3G/4G模块)
HDMI	1*HDMI，支持 HDMI 数据输出,最大支持 4K
网口	1*LAN,10M/100M/1000M 自适应以太网
音频接口	1*Audio I/O,支持音频输入输出，耳机座: 3.5mm标准接口
复位键	支持(1*UBOOT)
COM	1*RS232
Wi-Fi天线	1*Wi-Fi天线
接地柱	1*接地柱(GND)
扬声器	2 (8Ω2W)

产品可靠性参数

工作温度	-10°C~60°C
存储温度	- 20°C~70°C
相对湿度	95% non-condensing



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Overview of Medical Vending Machine Electrical Cabinet Structure

1. Network Interface: Connects wired devices to local area networks (LAN) and the internet via network cables;

2. Power Socket: 10A triangular power input socket;

3. 24V Power Switch: Provides DC24V power output;

4. Cooling Fan: Ensures electrical components operate within safe temperature limits through heat dissipation;

5. Control Mainboard: Oversees overall unit operation;

Terminal Block: Connects main power input and output.

graph 3

4. Machine Commissioning

2.1. After positioning the machine appropriately, adjust the levelling feet to ensure stability.

2.2. Insert the key into the lock and turn clockwise to release the handle. Then turn the handle anticlockwise until the door opens.

2.3. Switch on the main power supply. Press the earth leakage test button on the main switch to verify that the earth leakage circuit breaker trips correctly.

3. Inventory Replenishment and Specification Requirements

3.1. Inventory Replenishment:

- Prepare the goods to be replenished, ensuring they are well-packaged and clean;
- In the management menu, select the "Replenish" mode;
- Prepare the goods to be replenished according to the inventory list and ensure that the outer packaging is clean, intact and meets the specification requirements.
- On the right side of the bottom layer of the cargo aisle, there is a latch that can be pressed to unlock and pull out the aisle for replenishment (as shown in the figure).

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- Each cargo lane is assigned a unique number (1-1), which corresponds one-to-one with the lane information in the management backend.
- Arrange new goods sequentially, tightly, and neatly on the lane. Ensure the first item is flush against the outbound baffle—this is critical for smooth dispensing;
- In the corresponding product channel settings in the admin console, enter or confirm the quantity for this replenishment. The system will update inventory based on this quantity.
- After restocking, the spring should be in a state of slight compression relative to the product. This provides sufficient thrust to push the product toward the exit; the spring must be oriented downward (as shown in the figure).

- Ensure all product channels are fully closed and locked (with latches secured);
- Use the administrator's “Test Shipment” function, or purchase an item yourself during off-peak hours, to verify that restocked product channels can ship items normally and smoothly;

3.2. Specifications Requirements:

- The thickness of each individual item must be ≤ 40mm.
- For smooth shipment, the product thickness should ideally be between 36mm and 40mm.

dimension	ask	explain

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Thickness (Height)	Strictly ≤40MM	This is a mandatory requirement. The height of the surface where the product is pushed by the spring.
width	≤135MM	The goods must fit smoothly into the aisle with a small gap to prevent jamming.
length	Recommended ≤160MM	The length of the goods may exceed the spring length, but excessive length may cause twisting within the conveyor channel, increasing the risk of goods jamming.

4. System Update and Testing

- Update the system with replenishment items, quantities, and production batches;
- After replenishment is complete, it is advisable to conduct an actual purchase test to verify that the replenished product lanes can dispense goods normally and smoothly;

Chapter 4 Motor Operation and Maintenance

1. Applicable Environment

The test is generally conducted at room temperature and humidity conditions. If users require, testing may be performed under 20℃±3℃ conditions.

Ambient temperature: 15℃ ~ 35℃;

Fundamental characteristics

2.1: Rated voltage: See the table below.

2.2: No-load current: See the table below.

2.3: No-load output speed: See Table 1.

2.4: Output shaft rotation:

CW/CCW (single-wheel series, facing the output turntable)

N/W (Dual-wheel series, facing the turntable with the chassis small end positioned below)

N: The two wheels are turning inward.

W: The two wheels rotate outward;

2.5: Noise: ≤65dB, with even, smooth sound and no distortion;

2.6: Maximum output torque of the gearbox: ≥480 N·m;

2.7: Stalled current: See the table below.

2.8: Comprehensive Performance Test: All tests conducted by our factory's dedicated comprehensive performance tester returned "OK".

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额定电压	24VDC/12VDC
空载输出转速	23.5±3.5RPM
空载电流	≤0.18A(24VDC)
	≤0.28A(12VDC)
堵转电流	≤1.35A(24VDC)
	≤2.5A(12VDC)
低温试验电流	≤0.20A(24VDC)
	≤0.30A(12VDC)
低温试验转速	23.5±4.5RPM

2. Basic Performance

3.1: Appearance

3.1.1: The injection-molded parts shall be free from flash, impurities, cracks, or visible injection defects, and fasteners shall not exhibit loosening or detachment.

3.1.2: The complete assembly is properly installed with secure fastening, ensuring correct polarity positioning of the motor. The motor tail shows no welding spatter marks, the circuit board surface is clean, the turntable specifications are accurate, and the switch contacts are precisely aligned with the E wheel.

3.1.3: Motor and gearbox labels must be affixed correctly, with smooth surfaces and legible text.

3.2: Working Method

The working mode is S3.

3.3: Weight

Single wheel: approximately 135g; Double wheel: approximately 180g

4. Low Temperature Performance Testing

4.1: The product was stored for 4 hours in an environment with temperature ranging from-2℃ to +4℃ and humidity between 45% and 85%.

The no-load speed and current are shown in Table 1.

4.2: The aforementioned measurement method: After the product is removed from the low-temperature environment, it is measured within 5 minutes under normal temperature and humidity conditions.

The test is completed, and the measurement sequence is to measure current first, then speed, or both at the same time.

5. Environmental Performance

5.1: Usage Environment

Temperature: -15℃ to +50℃ Relative humidity: 45% to 80%

5.2: Storage Environment

Temperature: -10℃ to +40℃ Relative humidity: 45% to 80%

Exposure to corrosive gases and liquids is not permitted;

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Chapter 5: Overall Maintenance and Care

1.1. Cleaning

project		Inspection time		
		Each replenishment	Once a month	Once every 6 months
clear	External to the machine	√		
	Shipment module	√		
	cargo channel	√		
	elevating assembly		√	
check up	earth leakage protection		√	
	LED lamp			√
	lubrication of transmission mechanism		√	
	apply oil			√

1.1.1、If the machine is covered with dust, wipe it with a dry cloth.

1.1.2、Inspect the main discharge port and the lifting hopper for any remaining cargo or foreign objects. Ensure that the passage is completely unobstructed before cleaning.

1.1.3、If the stain is severe, wipe the affected area with a cloth soaked in water or a diluted neutral dishwashing liquid solution.

1.1.4、Check the running track of the lifting platform for obstacles, dirt, or wear.

1.1.5、Avoid cleaning with organic solvents or alkaline liquids, as this may cause cracking of the panel.

1.1.6、When cleaning the machine housing, avoid using paint solvents, ammonia, or other chemical substances to prevent damage or safety hazards.

1.1.7、Monitor the product aisles daily and replenish them when stock levels drop below 20%.

1.1.8、Clean the dust inside the box with a vacuum cleaner monthly to prevent excessive dust buildup that could cause operational failures.

1.1.9、Perform a monthly leakage protection test by pressing the test button on the residual current device (RCD) to verify proper operation.

1.2、Frequently Asked Questions and Troubleshootin

phenomenon	Possible reasons	Preliminary treatment measures

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The goods are stuck in the lifting channel.	1. Product size/shape does not match 2. Foreign bodies in the duct 3. Sensor contamination or malfunction 4. Misalignment of the lifting mechanism	1. Remove stuck items manually after power outage 2. Check and clean the passage and sensor 3. Restart the device to observe 4. Contact Technical Support
The noise of the lifting platform is high	1. The guide rail is out of oil. 2. Obstruction by foreign bodies 3. Loose or worn transmission components (e.g., belts, chains)	1. Clean and lubricate the guide rail 2. Removal of foreign bodies 3. Contact technical support for inspection
The touch screen is unresponsive or malfunctioning.	1. The screen is too dirty. 2. System crash 3. Hardware failure	1. Clean the screen 2. Restart the device 3. Contact technical support
Payment succeeded but the item was not shipped	1. The inventory of this cargo lane is zero 2. Loose motor connection cable 3. Spring slippage or fracture	1. Check and update inventory in the background 2. Check the motor wiring 3. Replace the spring

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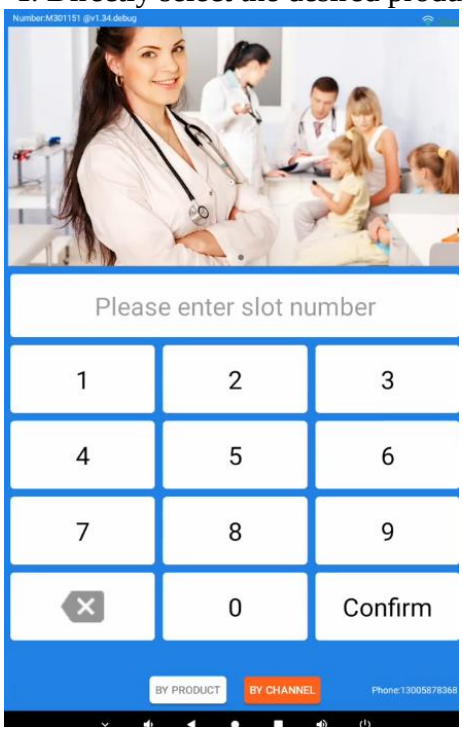
Chapter 6: Introduction to Equipment Terminal App Functions

1、User Purchase and Usage Guide

1.1 Purchase or Collection Selection Method

Select product method

1. Directly select the desired product on the screen;



2.Directly enter the product number (e.g., enter A1, B2, C3, etc.)

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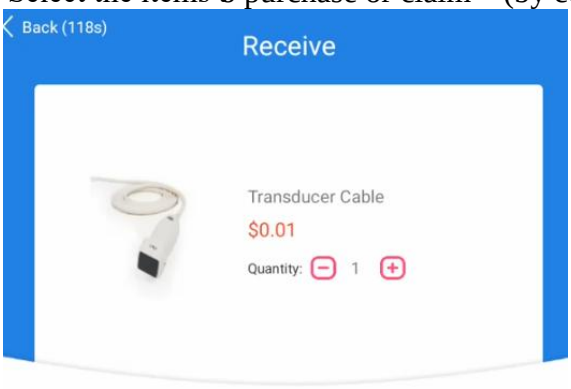
1.2 Purchasing Goods

- Select the items to purchase or claim (by code);



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- Select the quantity of the product to be purchased or collected (default is 1 PCS);
- Swipe the membership card or scan the QR code for payment and delivery;

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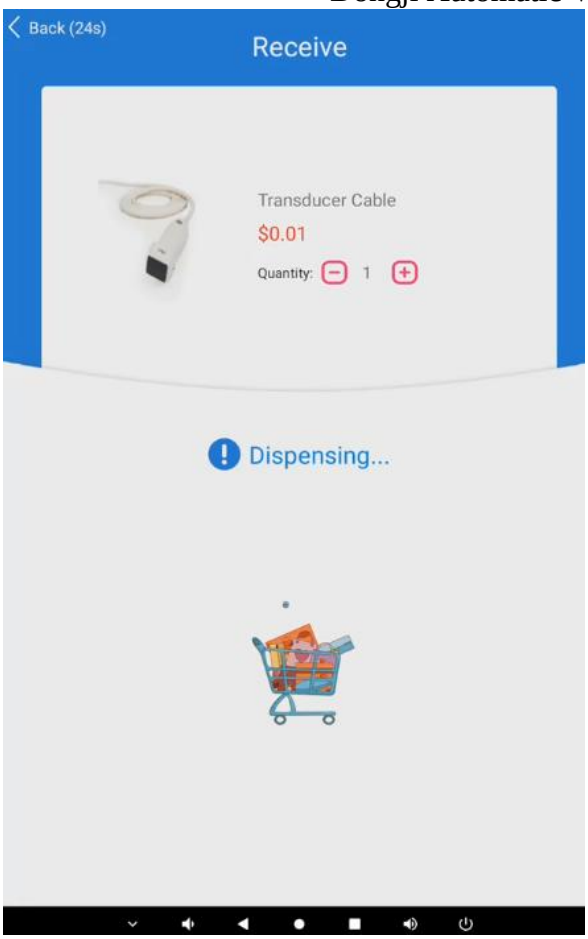

- Goods are being delivered;

- Please take your goods at the delivery port below;

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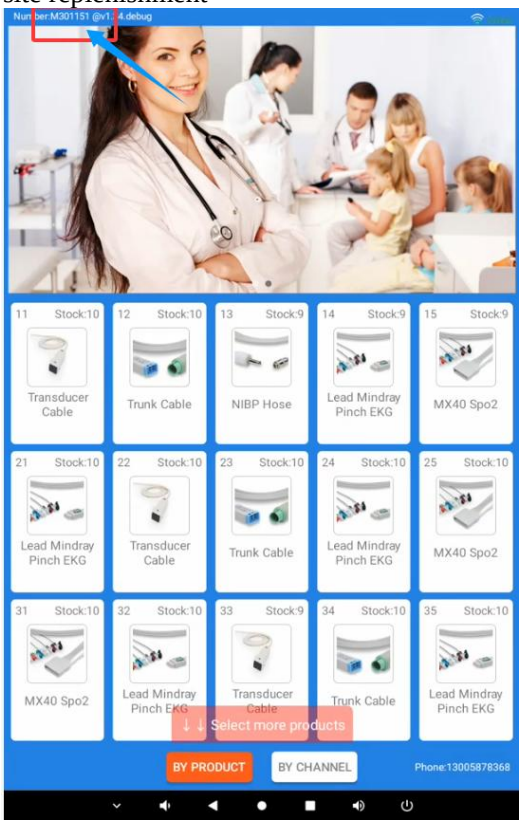
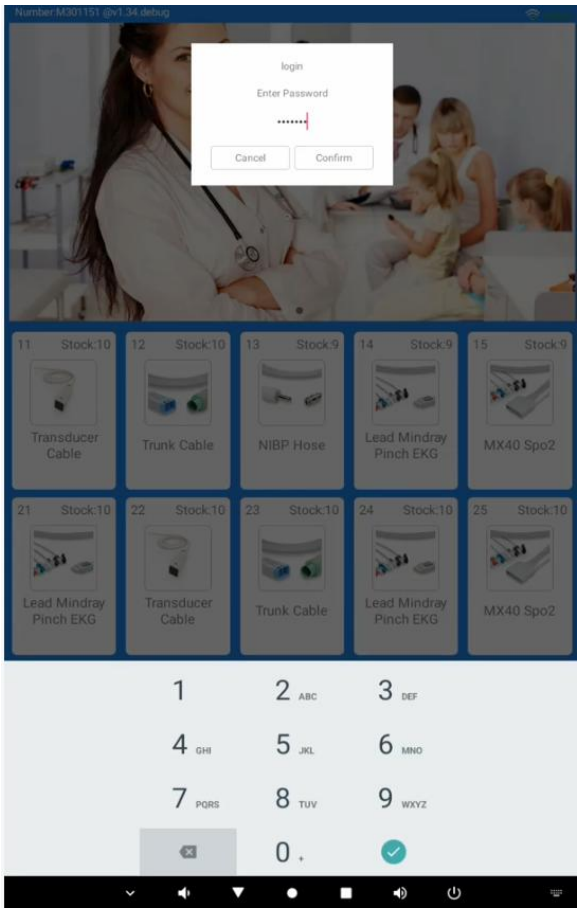
2、 Equipment Parameter Setting Function

2.1 On-site replenishment



- Tap the account "M30xxx" five times in succession.



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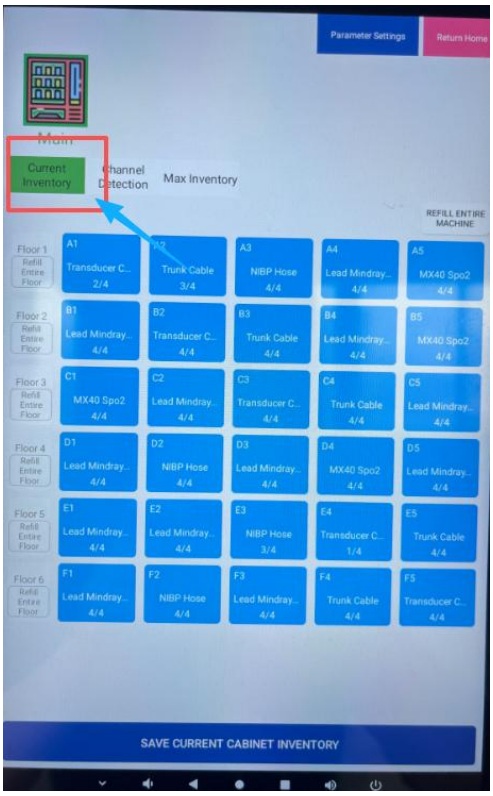
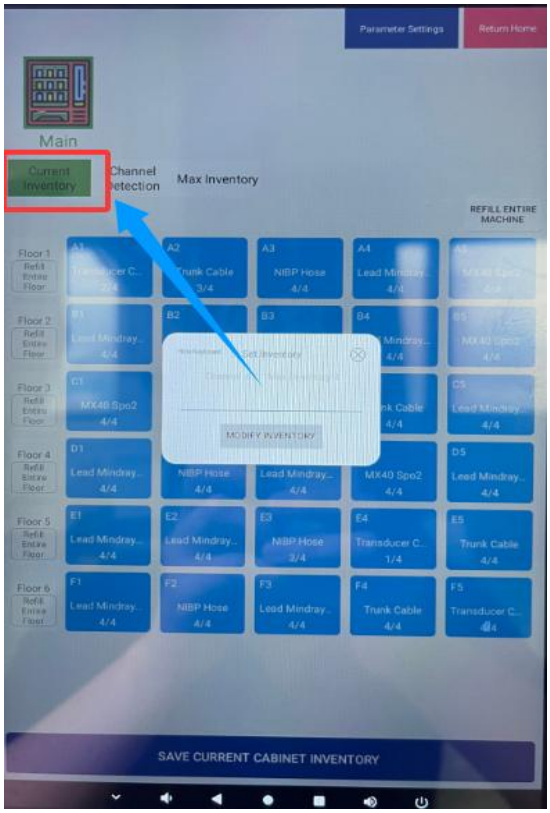
- Enter the password (default: 12345678) and confirm to proceed.





- After completing on-site replenishment, the correct actual inventory quantity is simultaneously updated in the display system backend.

2.2 Automatic Detection

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- One-click auto-detection

2.3 Maximum Inventory Settings

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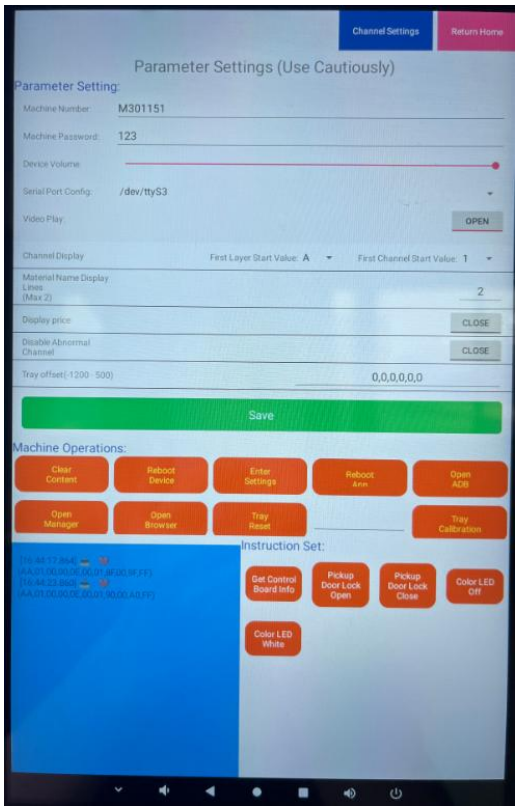
- This machine can only load 4 items per lane.

3、Parameter setting



- Clear Log button;
- Press the restart button on the entire device.
- Go to Settings (Android system settings) and tap the button;
- Restart the APP button;
- Open ADB for temporary use (for technical debugging).
- Open the Manager button;
- Quickly open the browser interface;
- The tray reset button;

  Calibrate the pressure sensor. Click the peel button.

  Place the 5KG weight;

  Enter the code quantity;
- Calibrate the tray button; (Calibration complete);
- Press the button to get the control board information.
- Press the button to open the lock of the door.
- Test the button to close the lock of the door.
- Press the colored LED button to turn it off.
- Press the test button of the color LED;

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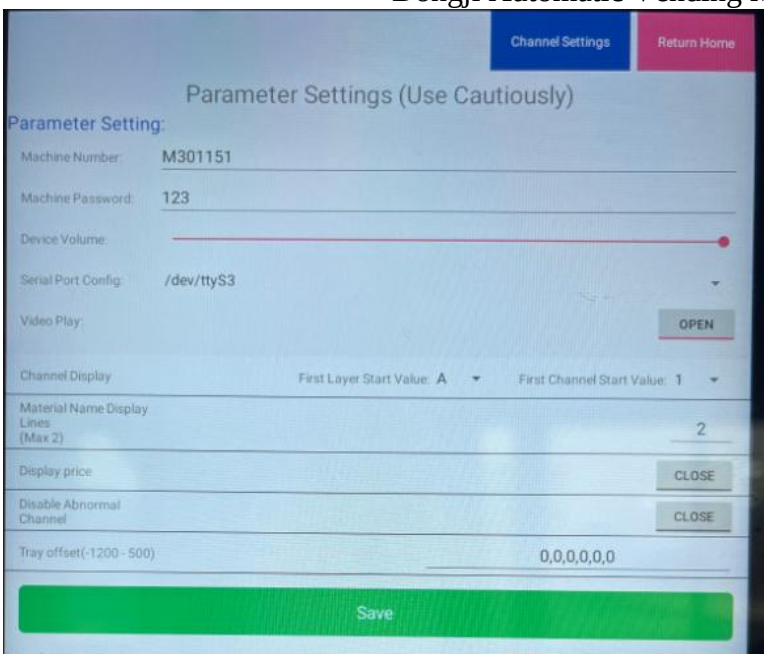

- Do not modify these settings (contact the manufacturer for adjustments).

Chapter 7 Backend Management System

1. User login

Open a web browser and enter the Dongji backend management system address:
http://dj.ymiduo.com/#/login

Enter your username, password, and verification code, then click **"Submit"** to log in.

It is recommended to use a Chrome-based browser. Google Chrome is the preferred option.
If Internet Explorer is used, please ensure the version is **IE 8 or later**.

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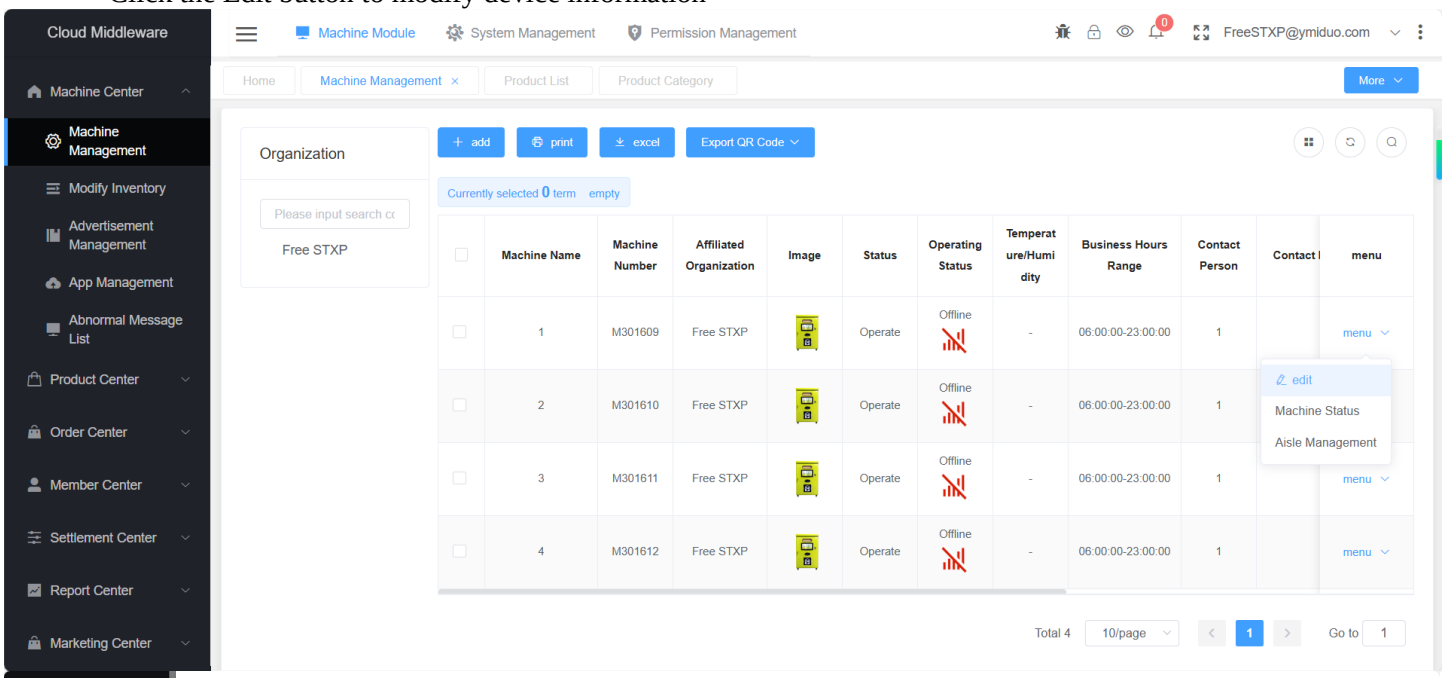
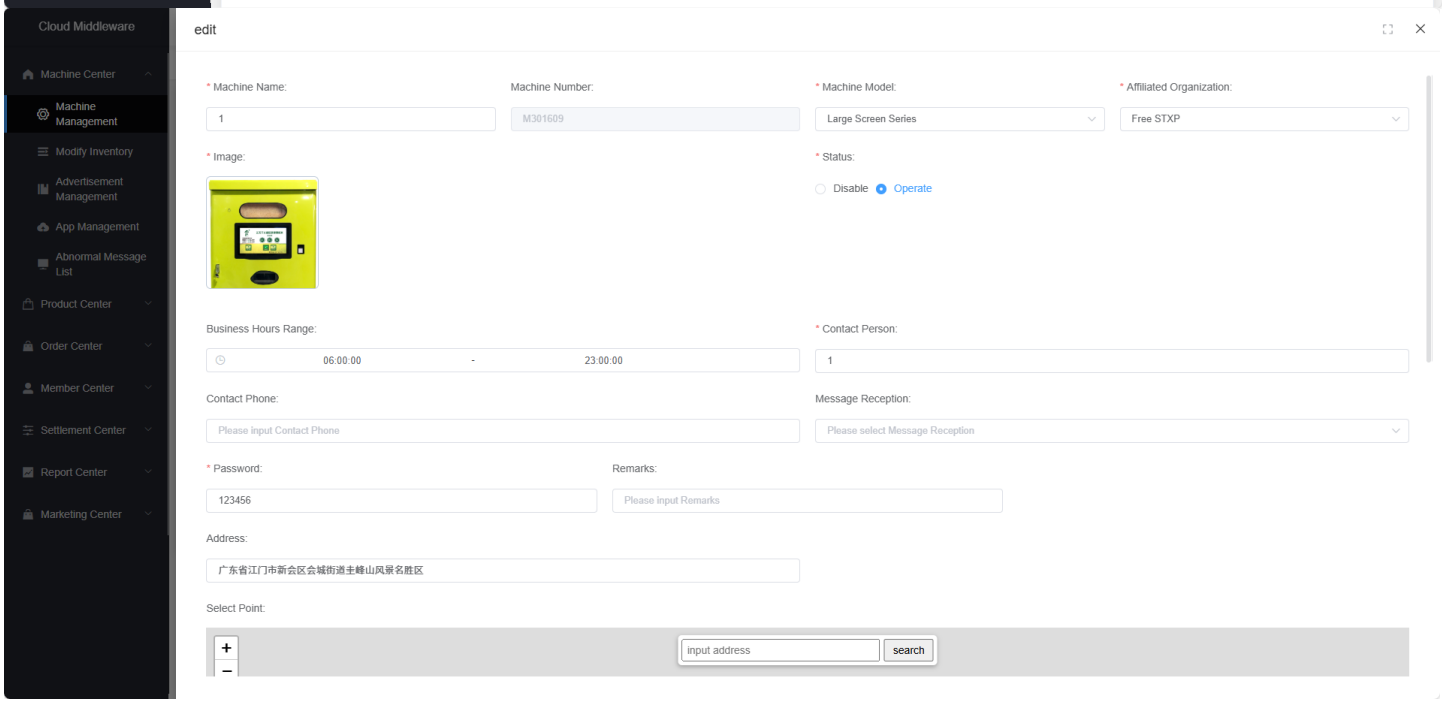
2. Device management

1.1. Open the Device Management Page

- Click the Edit button to modify device information





1.2. Check Device Status

- Click the device status button

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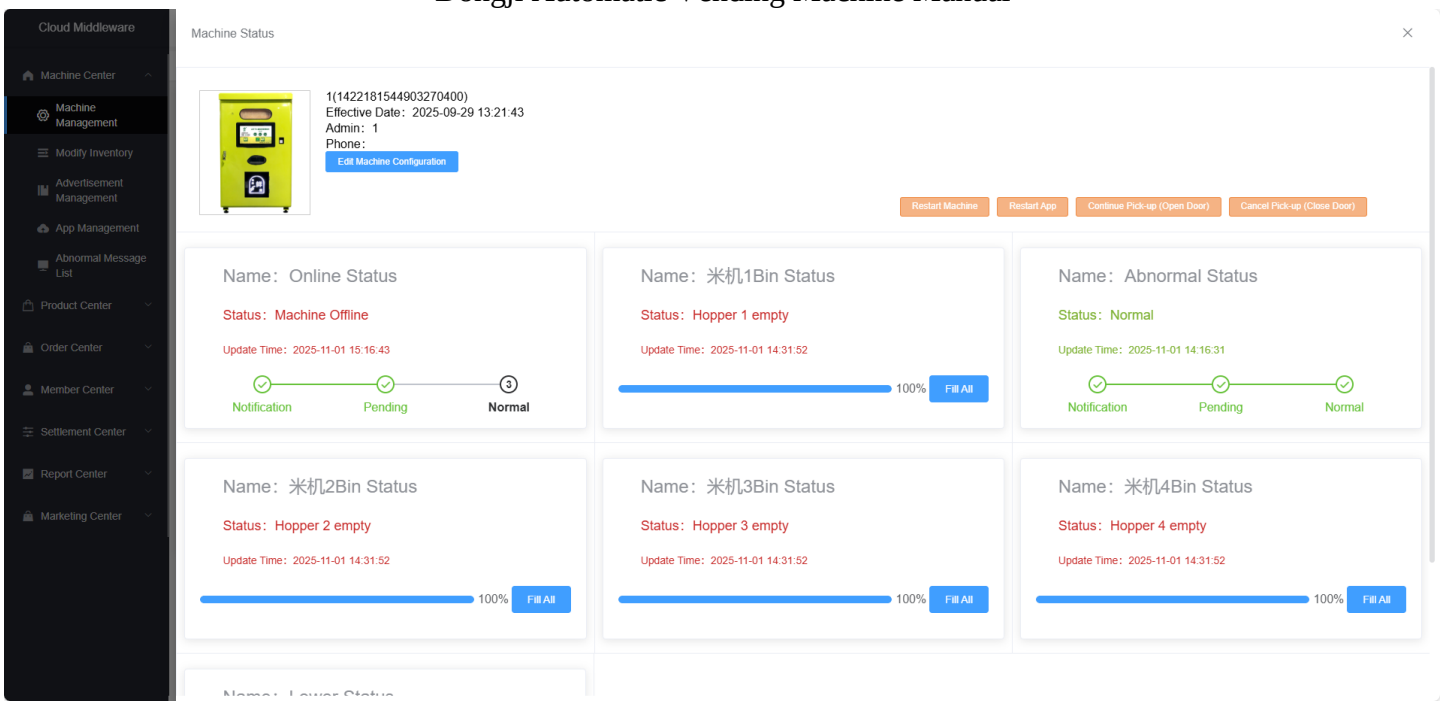
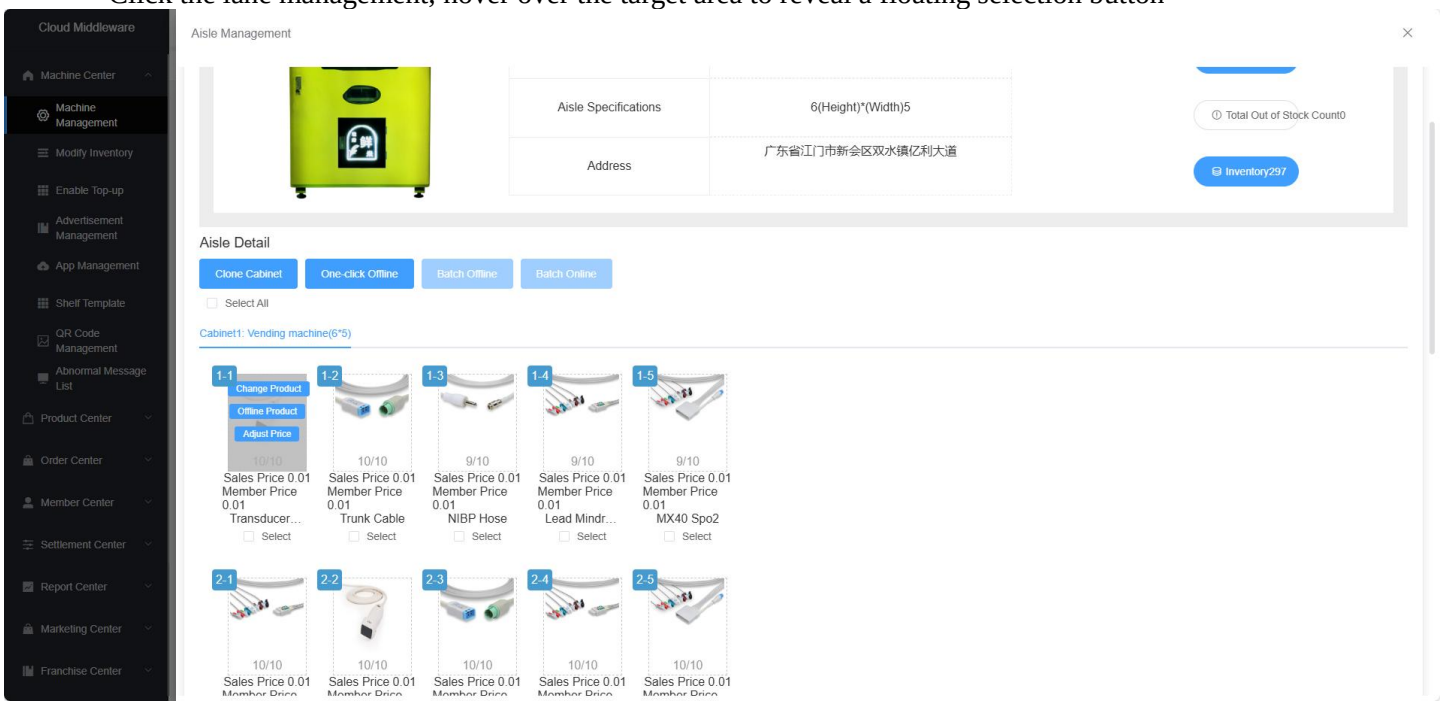


1.3. Remove from Shelves

- Click the lane management, hover over the target area to reveal a floating selection button



3. Replenishment Management

- Open the Modify Inventory page, select one device, click One-Click Inventory Replenishment button, and save the changes

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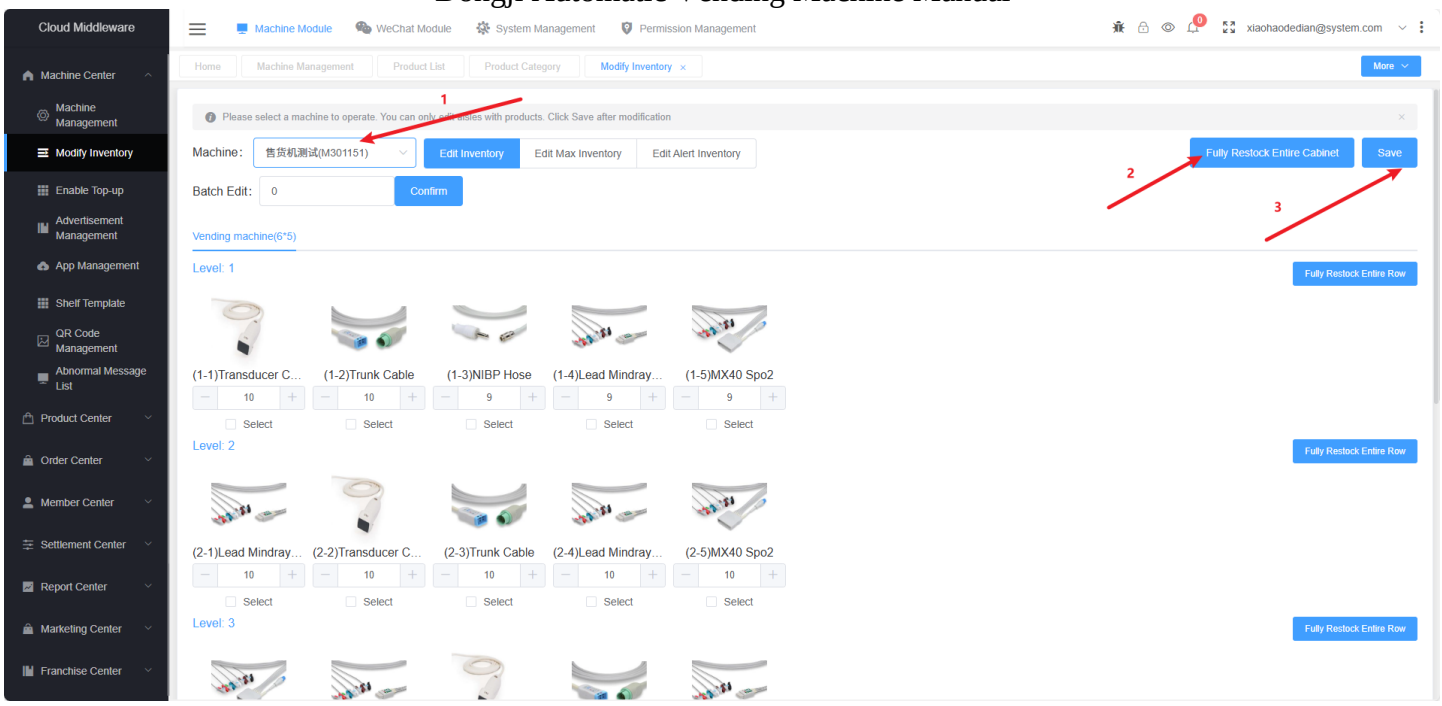
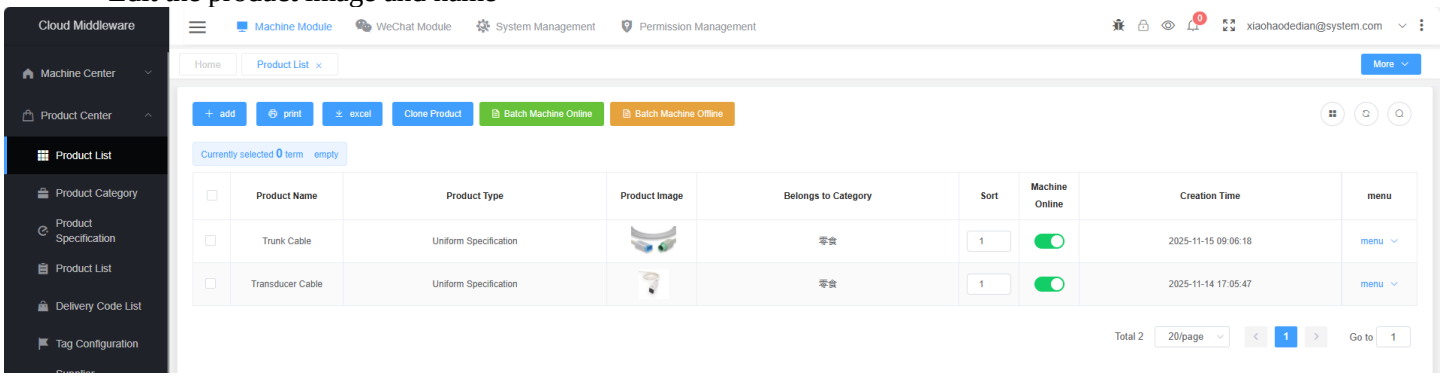


4. Merchandise Control

- Click on the product list to view all product information
- Click Edit to modify the product
- Edit the product image and name



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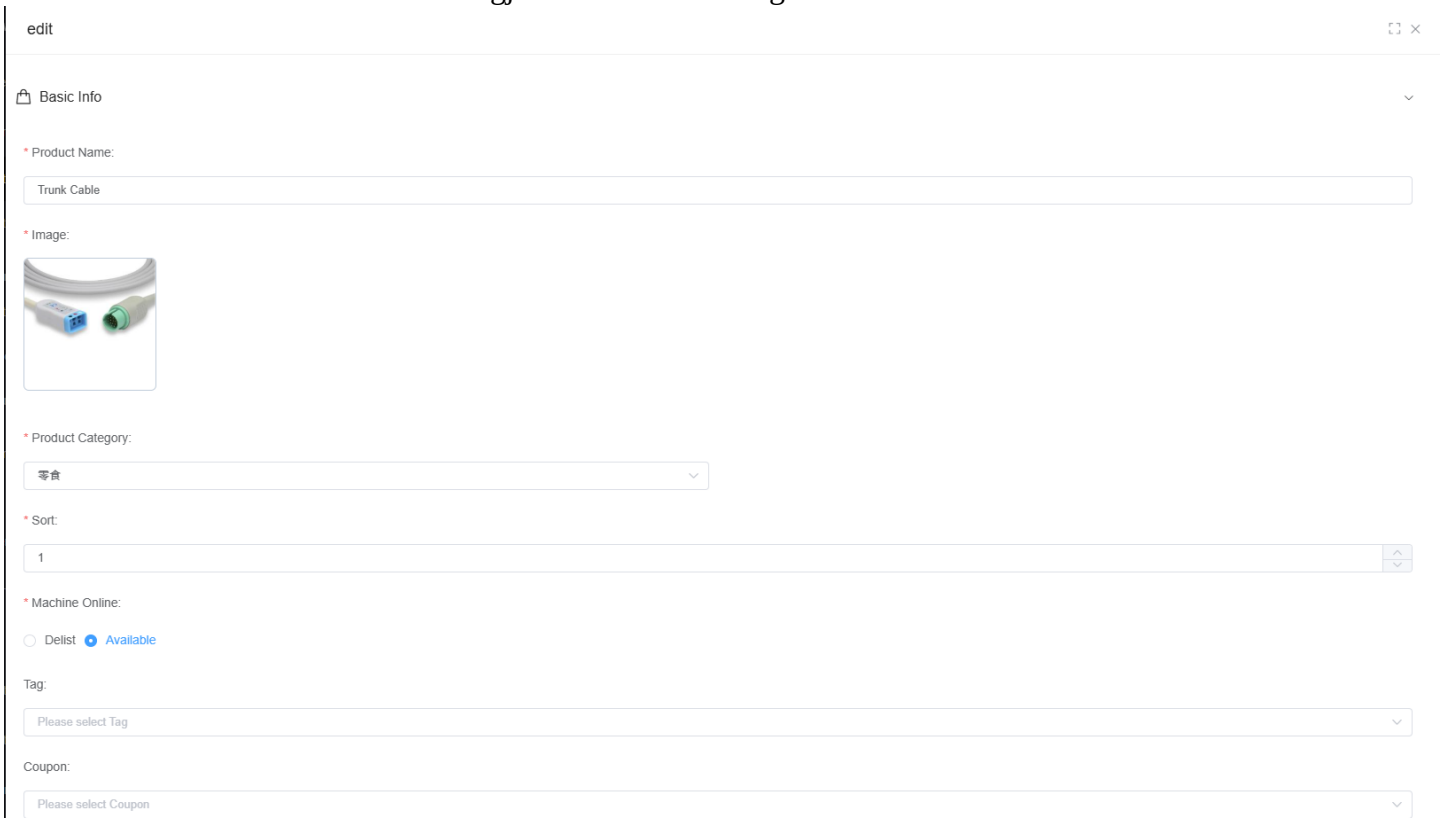
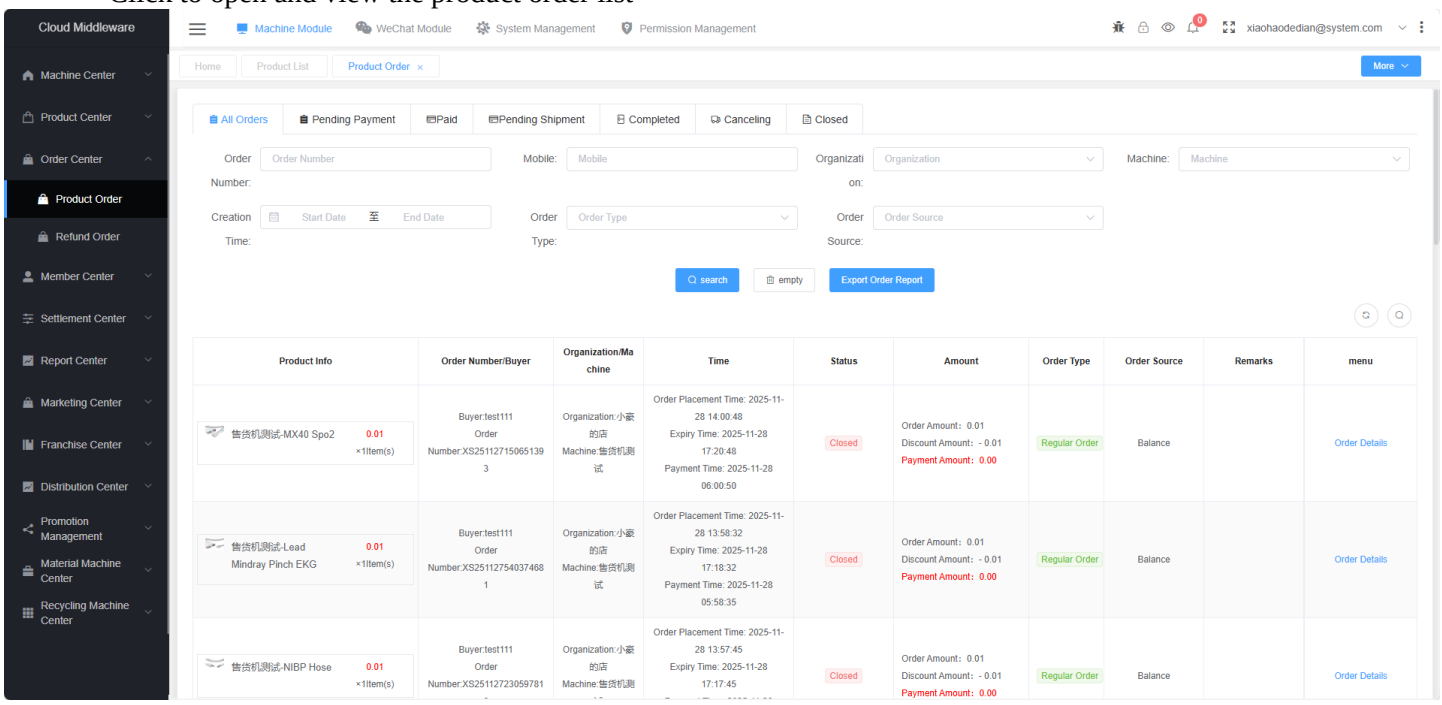


5. Order Details

- Click to open and view the product order list



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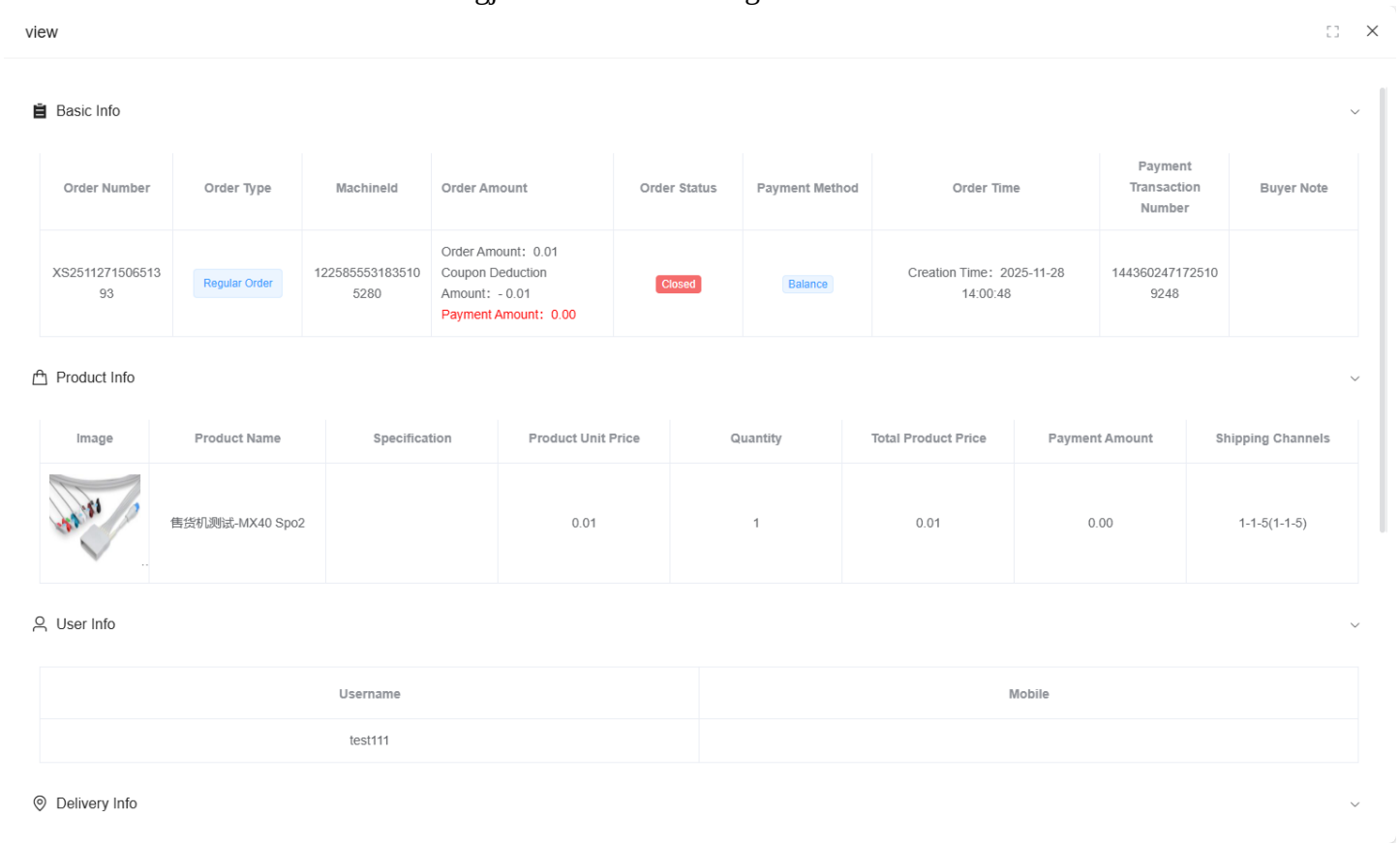
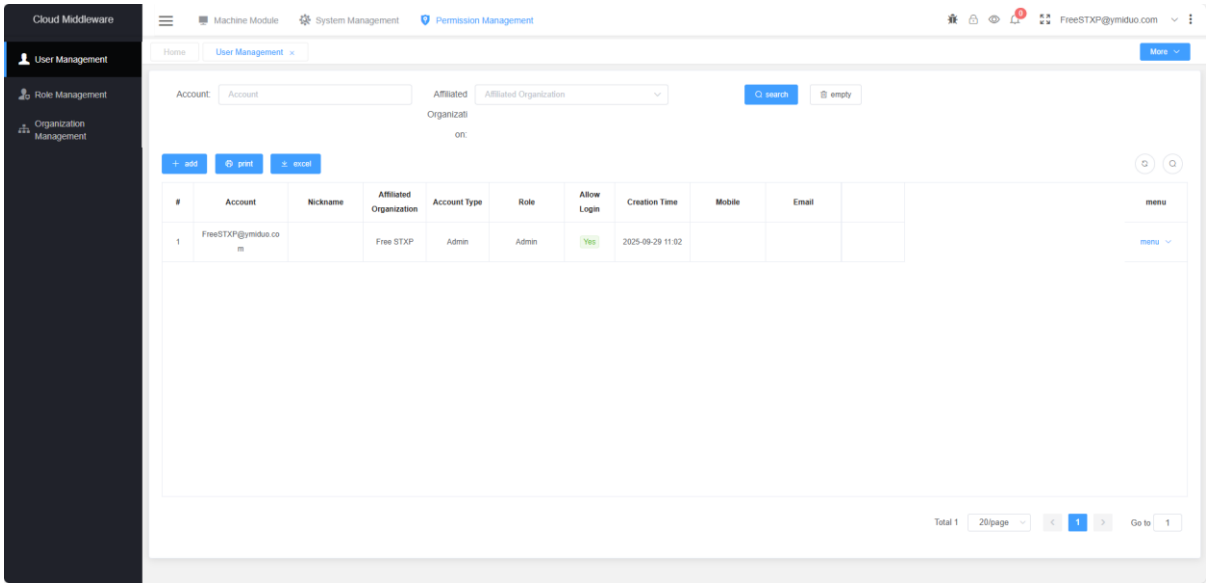


6. Account Management

- Click Permission Management to open the user management page and add or edit account information



Remote Update for Device App and Host Machine

7.1 Remote update of device app

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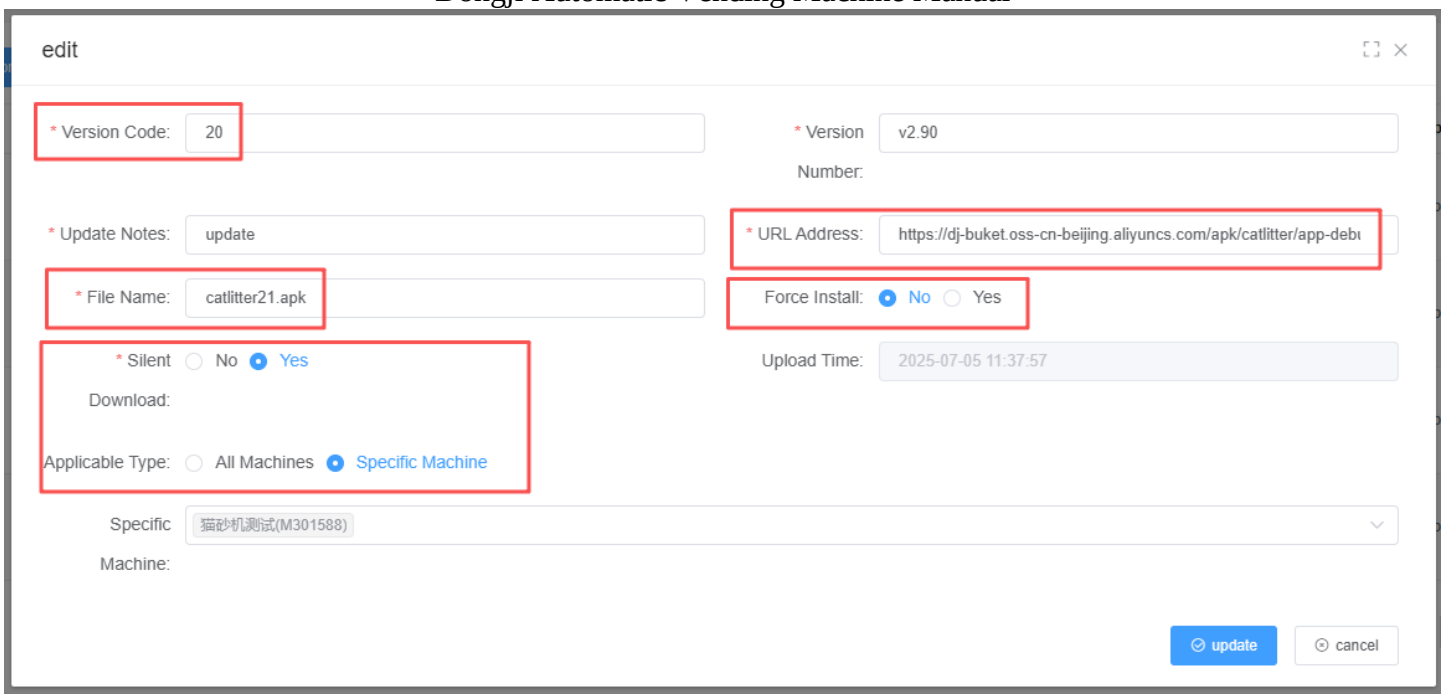
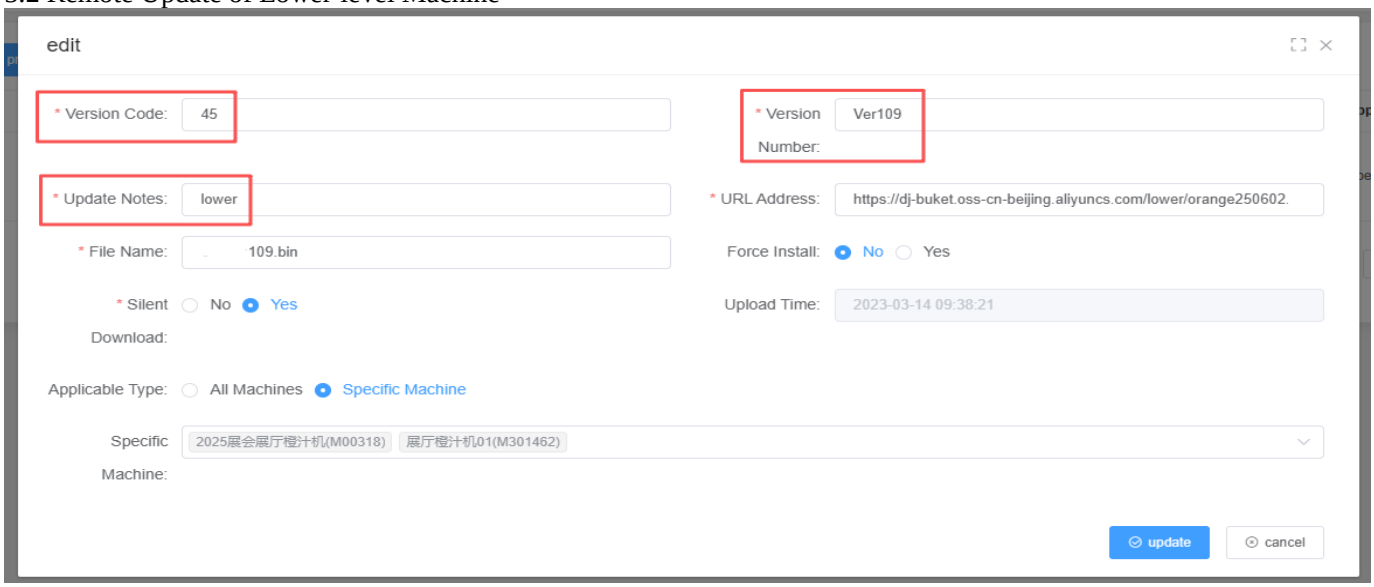


- The version code should match the app version
- Enter the correct remote update link
- The file name must end with.apk
- Update all devices or only specific devices(when there are many devices, it is recommended to assign specific updates)
- Configure other items in the red box

5.2 Remote Update of Lower-level Machine



- The version code must be greater than the software version number.
- The version number must differ from the slave machine.
- The update content must be “lower”.
- Other settings are the same as those the remote update app.

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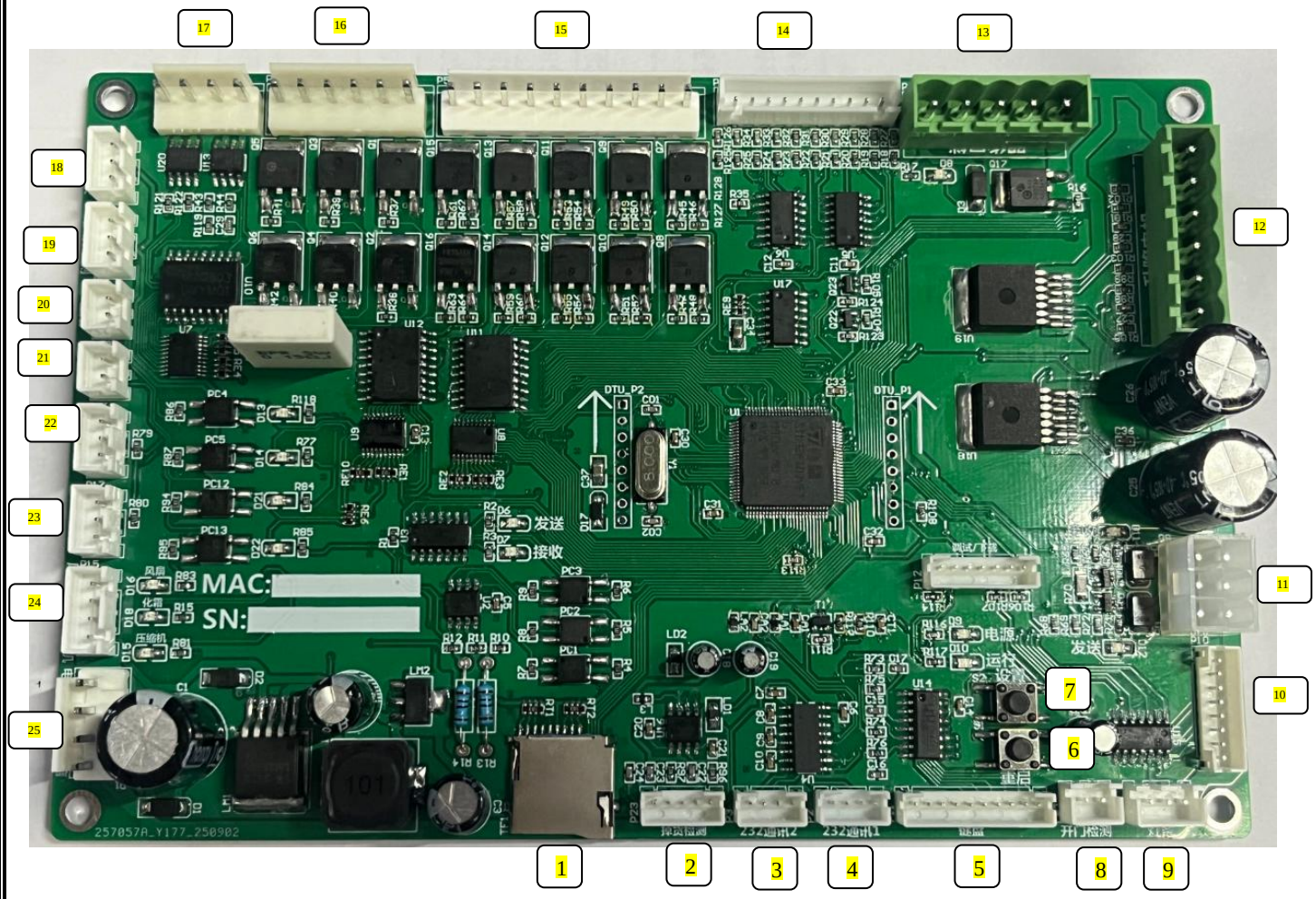
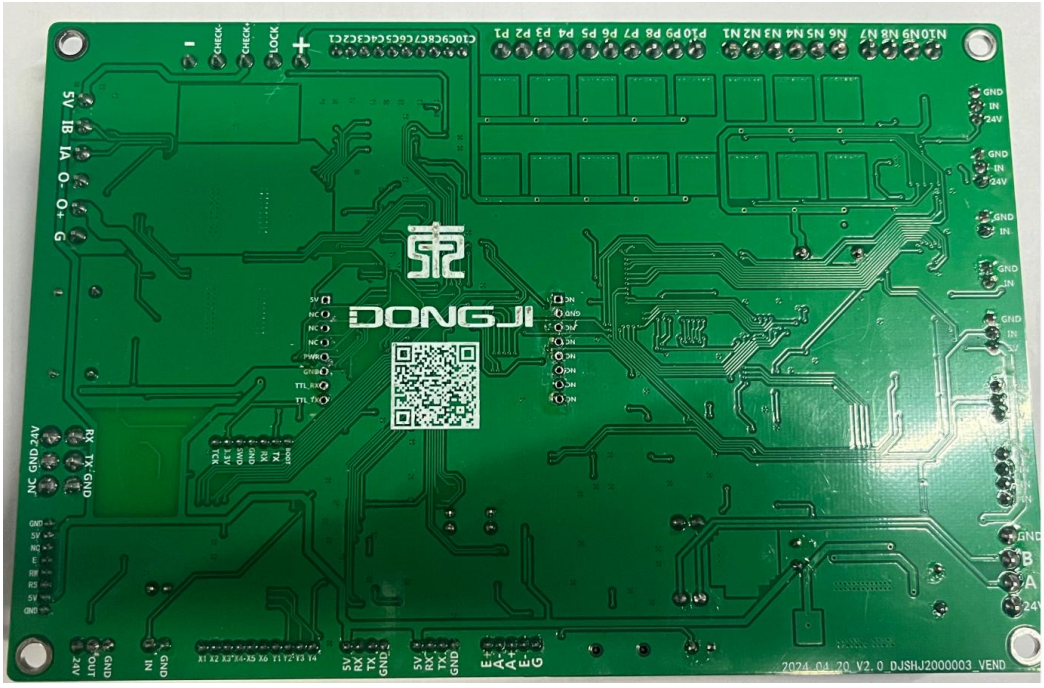
Chapter 8 Overview of Control Board Products

Front of the Control Board



Back of the Control Board



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Chapter 9 Control Board Mainboard Interface Description

Control Board Interface Description			
Serial Number	Name	Function Description	Remarks
1	TF Card Socket Interface	Realize remote update of the control board program through TF card	
2	Drop Detection	Detect an obvious "blockage-passing" level jump signal	
3	232 Communication 2	RS-232 serial communication standard data transmission interface (backup)	Backup interface
4	232 Communication 1	RS-232 Serial Communication Standard and Data Transmission Interface of Android Board	
5	Keyboard	Connect to the keyboard settings	
6	Restart	Quick Restart Button	
7	Settings	Quick access to settings button	
8	Door Open Detection	Interface for sensing and responding to the open/closed state of cabinet doors	
9	Light Strip	Interface for lighting functional LED light strips	
10	12864 Small Screen Display	Not applied in this version	Not applied
11	MDB	Automatic sales payment function interface	
12	Lifting Motor	The lifting motor is transformed from a simple power component into an intelligently executable component that can be precisely commanded and monitored in real-time	
13	Pickup Port Lock	Authorized opening, status monitoring, and anti-theft alarm	
14	Motor Rotation Feedback DetectionReal-time and accurately monitor the rotation angle,	Real-time and accurately monitor the rotation angle, speed, and direction of the motor shaft	
15	common positive terminal	Common power supply positive terminal. Provide centralized +5V or +12V power supply for multiple sensors (such as layer probes, limit switches)	
16	Common negative terminal 1	Common power supply negative/signal ground terminal group 1	
17	Common negative terminal 2	Common power supply negative/signal ground terminal group 2	
18	layer probe	Lane layer positioning sensor interface. Connect to infrared or Hall sensors installed on the side of each layer of the lane to assist in calibrating or redundantly verifying the floor position of	

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		the lifting platform	
19	Extended detection	Extended function detection interface. Reserved for connecting extended peripherals such as temperature and humidity sensors, vibration sensors, and network modules to increase intelligent equipment management functions	
20	Upper Limit	Mechanical upper limit switch interface. Connect to the physical limit switch installed at the top of the lifting channel. When the platform touches it, the motor power is cut off immediately to prevent mechanical overshoot from hitting the top	
21	lower limit	Mechanical lower limit switch interface. Connect to the physical limit switch installed at the bottom of the lifting channel. Used to define the mechanical zero point and provide protection when the platform overtravels during descent	
22	Refrigeration Probe	Not applied in this version	Not applied
23	Defrost Probe	Not applied in this version	Not applied
24	Fan/Defrosting/Compressor	Not applied in this version	Not applied
25	Power input/485 communication	Composite function interface: 1. Power Input: Connect to a DC regulated power supply (such as DC 24V) to supply power to the entire control board and some peripherals. 2. 485 Communication: Provide RS-485 bus interface for networking multiple devices or remote data communication with the backend management system (such as sales data upload, remote control)	

Chapter 10 Firmware Update Method Description

Operation Method: Place the firmware file elev2.bin (note: the file name cannot be changed) in the root directory of the TF card (ensure the TF card format is FAT or FAT32) → Insert it into the card socket on the control board when the control board is powered off → Power on → The working indicator light of the circuit board changes from slow flashing to fast flashing (slow flashing once every 500 milliseconds, fast flashing once every 250 milliseconds) → The working indicator light changes from fast flashing to slow flashing → Firmware update is completed.

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FCC Warning

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any inte rference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interferenceto radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

•Increase the separation between the equipment and receiver.

•Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

•Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

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